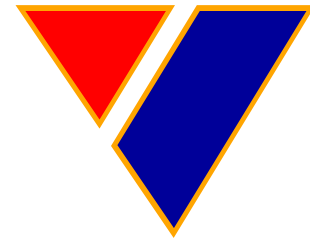


VCNO BRIEF ON WEB ENABLEMENT

TF *Web*



SPAWAR



- Organizational Approach
- Criteria for Web Enabling
- Scope of Universe
- Web Enabling Plan
- Programmatic Impact
- Issues

- Web Enablement, facilitated by horizontally integrated capabilities, will be our top priority. It will achieve data integration, universal access, and common displays
- The Program Directorate for Applications (PD-15) is designated as the Single Point of Contact for Task Force Web/WEN for SPAWAR HQ

Selection Criteria

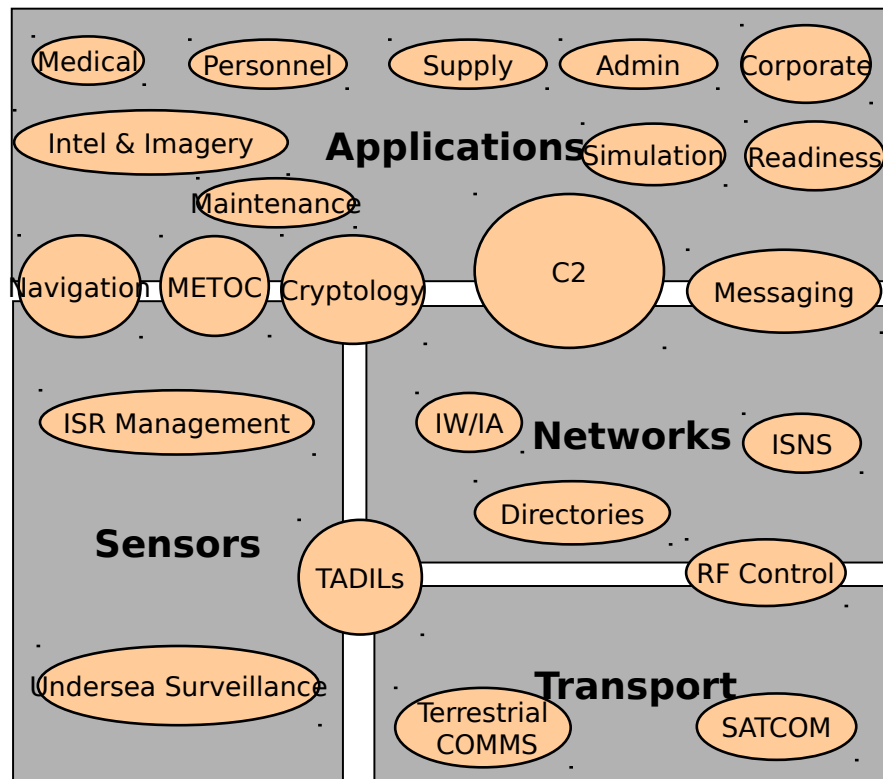
- Short Term:
 - Operationally focused view
 - Ability to execute according to TFWeb schedule
 - Focus effort on core services
- Long Term:
 - Fleet inputs (Operational Advisory Groups, OPNAV requirements conferences, FBEs, etc.)
 - Job task and usage analysis
 - Future IT-21 deployments will synchronize with WEN objectives

Define your universe Programs of Record

- Organizing development around functional areas
- Organizing management around service layers to promote cross function interoperability

Currently with Web Presence

- Many already have a significant web presence:
 - e.g. Delivery of weather data, combat support information, etc.
- Many also provide services to current web enabled products
 - e.g. SATCOM provides TCP/IP connectivity



Required Support Infrastructure/Non-feasible

- Systems with real-time requirement
 - Tactical Data Link and sensor processing
- Non-application software based
 - Tactical radios, antennas, comms interfaces
- Services that will be replaced by a new system in development

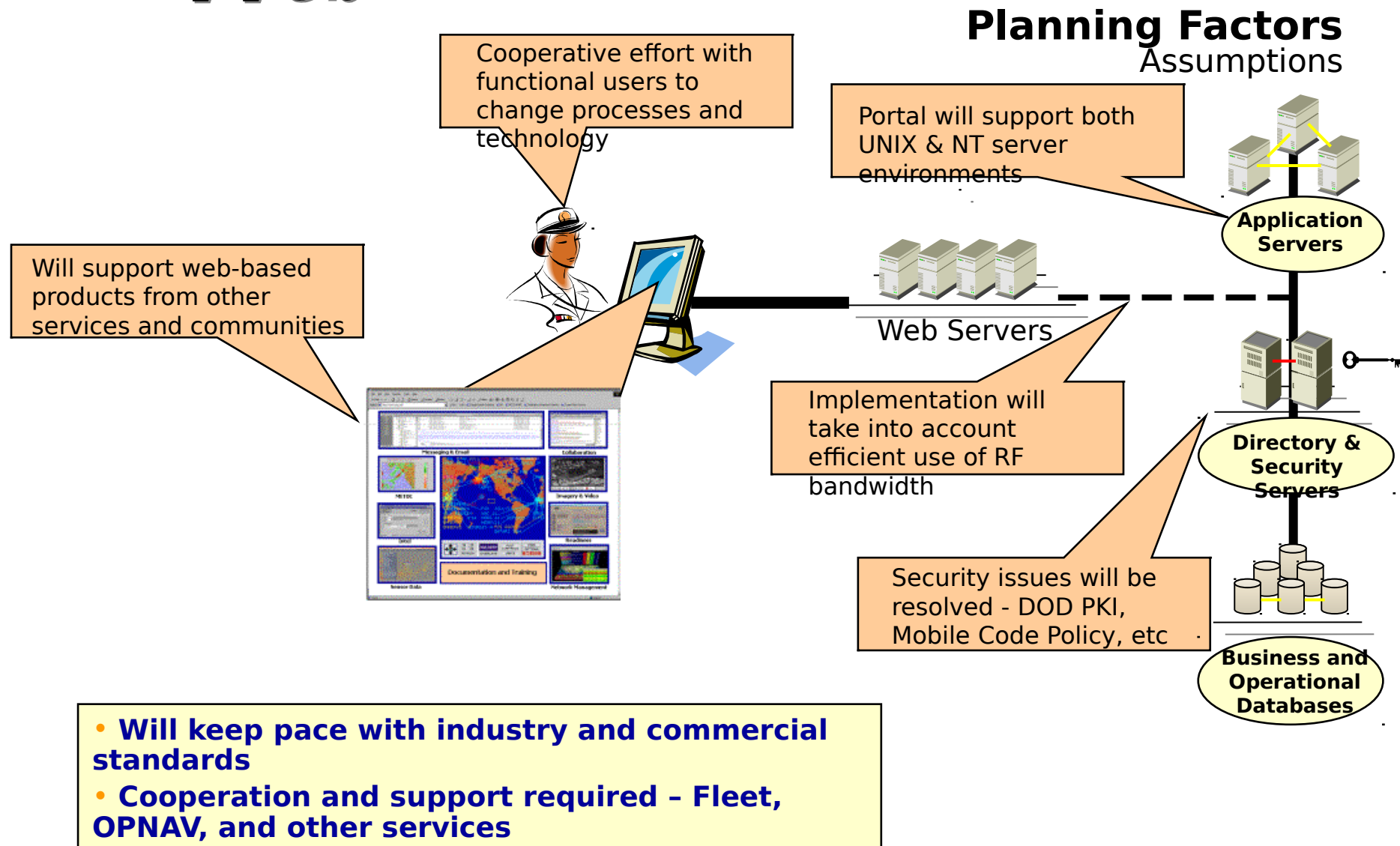
Vision

Transport

Network Management

Sensor Data

- 128 Systems are in development or acquisition
 - 42 Web enabled systems already in development
 - 13 Existing systems that can be redirected towards web enablement
 - 4 New starts or product upgrades that will be web enabled targets
 - 69 Required Support Infrastructure/Non-feasible systems (real-time processing, non-application software based, legacy systems being replaced)
- Majority of current contracts and ORDs do not include web enabling as a requirement, but they do not prohibit it
 - Many programs already developing web enabled versions



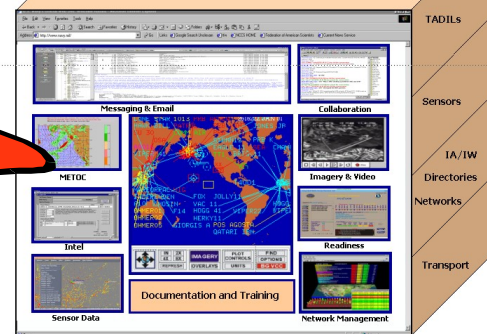
Planning Factors

Overall timeline

- Admin, Maintenance and Supply
- Readiness (OOMA and OIMA)
- Historical Readiness Data (CHF)
- Read/Write Messaging
- Imagery Management
- View ATOs (TBMCS)

- **Providing services in focused operational areas vice stovepiped programs**

Supporting Infrastructure Services



Nov 01

Nov 02

Nov 03

- Web COP
- Weather and METOC data display
- Personnel Data
- View Imagery and MIDB data
- On-line Digital Nautical Charts and Updates
- View Record Message Traffic
- Web email and and collaboration
- Employment Scheduling
- Access Cryptology Data
- ISR Management
- Navy/Marine Corps White Pages
- RF Management
- Corporate applications

- Dynamic Web COP
- Water space Management
- Navigation
- METOC analysis
- Imagery via Web COP
- Undersea Surveillance
- Account Management via web interface
- IA/IW

- **Initially will focus on integrating current or soon to be developed web enabled applications**
- **Remaining candidate services will be implemented by 2004 IAW NAVADMIN 077/01**

Planning Factors

How to measure success

- Incorporation of usage metrics and other performance measures
 - CASREPs, trouble reports, hit counters, stickiness, operational impact, efficient bandwidth utilization
- Ability to deploy new capabilities and cost analysis
 - Weeks vice Months
 - Cost to deploy via web vice team of installers
- Increased access to capabilities:
 - Any data, anytime, anywhere
- Percentage of our universe that is web enabled
 - Track planned vs. actual

Planning Factors

Risk Mitigation

- Continuous Fleet involvement to ensure user satisfaction
 - OAGs, CONOPS, GUI reviews, functionality reviews, etc.
- Establish, publish, and enforce technical standards and development guidance ASAP
- Focus on core service products first
 - e.g. Web enabled COP for visualization of many different services
- Evolutionary Approach
 - Build-a-little, test-a-little, verify performance before Fleet rollout
- Maintain and support legacy applications until web-based applications successfully meet fleet requirements
- Leverage DOD PKI
 - Validity checking & Authentication



Web Enablement Timeline

Service Area	Systems that will be Web Enabled by Nov 2001	Systems that will be Web Enabled by Nov 2002	Systems that will be Web Enabled by Nov 2003
C2	Static Track visualization, Help and Documentation, WECAN, initial integration between map and relational databases	TBMCS (limited read only functions) C2WCM (export comm plan, satvul, etc)	Dynamic Track visualization, improved map support, integration with Intel and Imagery applications, WSM,
Navigation	On-line Digital Nautical Charts and Updates		Navigation (user interface) and ILS
METOC	METOC (Weather Forecast, Data/Process Alert, METOC Data Display, METOC User Support)	METOC (Data)	METOC (Atmospheric & Ocean Analysis, Acoustic/Non-acoustic Sensor Analysis & Predictions)
Medical	SNAP Automated Medical System (SAMS) Environmental Health module		TMIP
Readiness	GCCS-M (WebSked, DARWIN) GCCS-Joint (limited Read Only access)	GCCS-M (CHF), NTCSS (OOMA, OIMA)	GCCS-M (NSOF)
Simulation	NONE	NONE	NSS
Personnel	JASS, NOW		
Admin		NTCSS (R ADM)	
Maintenance		NTCSS (OMMS-NG, OMMS-NG (Q-COSAL), OOMA, OIMA)	
Supply		NTCSS (R-Supply I, R-Supply II)	
Intel and Imagery	MIDB Query, Imagery view, and Joint Targeting Toolkit	Imagery management and enhancements, ISDS data maintenance	Imagery WebCOP and ISDS maintenance enhancements
Cryptology	COBLU (file transfer, web proxy server, database access) CDF (file transfer, web proxy server, database access), SSEE-D2 (IP, remote), BGPHEs (IP, remote)	SSEE-D3 (IP, remote)	SSEE-E
Messaging	Record Messages (Read Only) Personal Messages (email) Instant Messaging / Chat	Messaging (Read/Write)	Defense Messaging System Administrative system support
Corporate	FMIS 2000, SKC VPO, CDRL Management, Work Order Tracking System, SCA, FIMS, IBFT, IRAPS, NMCI STAT, ILS Assessment, MIDA, E-Commerce Central, Application Extender, C4ISR Installation Database	Staffing Plan Database, TMP, AMAS	

TBD based on Congressional withhold

Service Area	Systems that will be Web Enabled by Nov 2001	Systems that will be Web Enabled by Nov 2002	Systems that will be Web Enabled by Nov 2003
Supporting Infrastructure Services			
Undersea Surveillance			Fixed Surveillance (Contact report via GCCS-M; signature displays and performance prediction data via WeCAN) SURTASS (Contact report via GCCS-M; signature displays and performance prediction data via WeCAN) MIUW (Contact report via GCCS-M; signature displays and performance prediction data via WeCAN) ADS (Contact report via GCCS-M; signature displays and performance prediction data via WeCAN)
ISR Management	SRMT	CM Portal	
IW/IA			CODS, IDS
Directories	IT-21 Unified Account Management (back-end), Navy Marine Corps White Pages		IT-21 Unified Account Management Front-end (User account management GUI)
ISNS	INM Pro, Web Cache, Remedy, Packeteer		
TADILS	E-JNL for Model 4 C2P, Deconfliction Server	E-JNL for Model 5 C2P Rehost, TSDF Calculator	E-JNL for Model 5 CDLMS, JNDA, MPA
RF Control	EMS		

Process Change

- Stretch goal: Change the way we deploy capabilities
 - Admiral Blair: Early introduction of prototype systems into the Fleet for rapid technology insertion and adaptation
- Frees operators from dedicated workstations
 - Reduced installation & sysadmin requirements
- Improved access to data and collaborative operations
 - Quicker and more direct access to combat support data during casualty response and tactical operations
 - Allows data mining/analysis by Fleet users
- Potential bandwidth utilization performance
 - From record message traffic and email to efficient web-based knowledge management

Tangible Benefits

- Manpower
 - The right people with Web access to the right data from anyplace with no extra intermediaries in the loop
 - Enhanced opportunities for personal and professional development
- Current Readiness
 - Ability to quickly capture requirements and develop the needed service
 - Power to swiftly field new capabilities/technologies
- Future Readiness
 - Empowering Sailors through increased access to standardized training
 - Speed to transform legacy applications with rapid new technology insertion resulting in warfighting improvements
- Quality of Service
 - New technologies will significantly increase the efficiency and effectiveness of how Sailors are able to do their work
- Navy-wide Alignment
 - Web-enabled services will be common across the entire Navy: afloat, ashore, or forward deployed

Cost & Execution

- Current POR requirement priorities do not support this effort today
 - Requires Fleet and resource sponsor re-prioritization
 - Mitigated by many programs already migrating to WEN environment
 - Need to update aging legacy applications and hardware
 - Need to support certain legacy applications
 - Current estimates require refinement based on TFW architecture, portal selection, and prioritization
 - POM 04 impacts
- Coordinate the impacts on external interfaces
 - Need to balance new development efforts with out leaving other customers orphaned

OPNAV Assistance

- Streamlined acquisition milestone process to meet accelerated implementation
 - Expeditious processing of Clinger-Cohen Act compliance reports as prerequisite for milestones
- Funding/execution prioritization

- Near term deliverables (November 2001) require immediate OPNAV reprioritization
- Need to replace aging legacy applications and hardware ASAP
 - Must field either newer versions or web enable existing versions
- Security of data must be preserved
- Robust IP connectivity to all users is critical to realizing advantages of web enablement
- Need for technical standards
- Authorization for access to services
- External Dependencies
 - DISA and other Services
 - EG: DII COE and TBMCS

- SPAWAR is fully onboard with web enablement
 - Will provide content to numerous service areas by November deadline
 - Many more to follow over the next 3 years
- Working with resource sponsor to prioritize requirements and schedule
- SPAWAR is ready to execute to short and long term goals

Annex

TF Web

The logo consists of the letters 'TF' in a bold, black, sans-serif font, followed by the word 'Web' in a light blue, outlined, sans-serif font. A horizontal bar with a blue-to-red gradient runs across the middle of the 'Web' text.

Annexes and Tables

SPAWAR backup slides follow this brief. They include the detailed program information and the Excel spreadsheet for all SPAWAR programs. The Excel spreadsheet contains systems and services feasible for WEN. Detailed program information slides list all programs, including systems that are infeasible to web enable.